

**Black Rock (Washington Black Rock, Gorien Zinc) (35)**

**Loc:** Sec. 24, (39-40E), on E. side of Deep Cr just N. of the Last Chance mine **Elev:** 2,000 ft. **Access:** 6 mi. by road to railroad at Northport **Prop:** 7 claims and 7 acres of deeded land. **Owner:** Last Chance Consolidated Mines, Inc., Spokane, Wash. (1952—). Gust Maki (1920). John Gorien (1921) Washington Black Rock Mining Co. (1922-1932) Black Rock Mining Co (1936). Knob Hill Mines, Inc. (Willow Creek Mines, Inc.) (1943). **Ore:** Zinc, lead. **Ore min:** Sphalerite, smithsonite, galena. **Gangue:** Dolomite. **Deposit:** Disseminated ore in white unsilicified dolomitic marble along bedding planes. Two ore bodies shown by drilling appear to have moderate ore reserves with av. grade of 8% Zn **Dev:** 250-ft. incline, 260-ft. adit, considerable drifting and stoping on the 200- and 250-ft. levels, diamond drill and churn drill holes. **Assays:** 6 carloads av 40% Zn. Ore contains traces of gallium and germanium. **Prod:** 6 carloads of ore prior to 1920, 5,280 tons in 1922-1924, \$300,000 prior to 1930. Produced in 1943 **Ref:** 30, pp 92-93. 46, pp. 82-84. 73, pp. 107-109. 97, 1923-1926, 1928. 98, 1922-1926. 106, 6/1/25, p 7, 11/1/29, p. 25; 6/2/32. 113, 8/20/36, p. 6. 129, pp. 111-112 130, p. 91. 133, p 36. 141, pp. 21, 22, 46. 157. 158.

**Black Witch**

(see Alma under silver)

**Bliss**

(see Galena Hill under lead)

**Blue Ridge**

(see Sierra Zinc)

**Blue Star**

(see Eagle under silver)

**Bonanza (72)**

(see under lead)

**Boundary Silver Lead**

(see Lucile)

**Brooks (123)**

(see under silver)

**Bruce Creek**

(see A and C under copper)

**Buffalo (68)**

(see under silver)

**Bullion (24)**

(see under lead)

**Burrus (Rocky Creek) (91)**

**Loc:** Sec. 8, (37-41E), on Rocky Cr., Northport dist. **Elev:** 2,400 ft. **Access:** 1 mi. SE. of Aladdin by road. **Prop:** 8 patented claims **Owner:** J. W. Burrus, Colville, Wash. (1947). **Ore:** Lead, silver, zinc, copper, gold. **Ore min:** Chalcocopyrite, galena, sphalerite. **Gangue:** Quartz. **Deposit:** Mineralized zone with max. width of 60 ft. consists of small quartz veins in argillite. **Dev:** 80-ft. shaft and several short adits total 300 ft. of underground workings. **Assays:** Ore said to av. \$20 per ton in all values. **Prod:** 1938, 1939. **Ref:** 30, pp. 91-92. 46, p. 60. 52, p. 7. 97, 1939, p. 49; 1940, p. 480. 104, 8/15/34, p. 22; 11/30/35, p. 26; 3/15/38. 106, 11/3/32, p. 14; 7/34. 158.

**Carbo (45)**

**Loc:** E. edge of sec. 25, (39-41E), 1½ mi. E. of Deep Lk., Northport dist. **Access:** Trail from a point 2 mi. up the logging road which follows Currant Cr. **Prop:** Private land **Owner:** Leased by John Colby, Northport, Wash., from North Columbia Lumber Co, Deer Park, Wash. (1942). **Ore:** Zinc. **Ore min:** Smithsonite. **Gangue:** Dolomite. **Deposit:** Ore is an aggregate of cavernous lenses of smithsonite-rich dolomite elongated parallel to bedding of low-dipping beds in lower Metaline

limestone Ore zone is cut off by major fault 100 to 250; down dip from outcrop. May be ore in breccia zone all fault. **Dev:** None (1944). **Assays:** Aggregate of exposed lenses and interbedded waste est to av. 3% Zn for thickn of 15 ft. and strike length of 300 ft A 12-ft-thick lens show 20.5% Zn. **Ref:** 20.

**Chewelah Eagle**

(see Eagle under silver)

**Chinto (106)**

(see under copper)

**Chloride Queen (78)**

(see under lead)

**Cholett**

**Loc:** Sec. 1, (37-39E), 5 mi. W. of Van Stone mine. **Elev:** 3,000-4,000 ft. **Owner:** American Smelting & Refining Co Wallace, Idaho (1951—). **Ore:** Zinc, lead. **Ore min:** Sphalerite, pyrite **Deposit:** Gossan and primary sulfides disseminated in Metaline limestone near intrusive contact with granodiorite. **Dev:** 7 bulldozer trenches, diamond drill holes **Assays:** 5-gossan assayed 7.9% Zn, and for 65 ft. the zone av 2.2% Zn **Ref:** 1-C, vol 7, no. 10, pp. 937-940.

**Cleveland (118)**

(see under lead)

**Clugston**

(see Silver Trail under lead)

**Columbia**

(see Iroquois)

**Columbia Tungsten (115)**

(see under tungsten)

**Colville Queen**

(see Chloride Queen under lead)

**Comstock (Abe Lincoln) (12)**

(see under lead)

**Contention**

(see Mountain View under silver)

**Copper King (55)**

(see under lead)

**Copper King (86)**

(see under lead)

**Coyote (19)**

(see under lead)

**Coyotte**

(see Coyote under lead)

**Daisy**

(see Daisy-Tempest under silver)

**Daisy-Tempest (102)**

(see under silver)

**Dead Medicine**

(see Silver Trail under lead)

**Deep Creek (Gorien Zinc, Northport) (38)**

**Loc:** Secs 23 and 24, (39-40E), about 100 yd. from the bank of Deep Cr. **Elev:** 1,900 ft. **Access:** 6 mi. by road to railroad at Northport. **Prop:** Several claims. **Owner:** The Goldfield Consolidated Mines Co., San Francisco, Calif. (1944—). Northport Mining Co. (1919-1921). Knob Hill Mines, Inc. (1943-1944). Jamieson-Higginbotham (1944-1947). **Ore:** Zinc, lead, silver. **Ore min:** Sphalerite, galena, pyrite. **Gangue:** Dolomite and limestone. **Deposit:** Ore is in highly banded and contorted 50 to 100 ft. thick and 200 to 300 ft. long in dolomite.



values are highest to the south **Dev:** Incline shaft 850 ft. deep, workings on 8 levels **Assays:** 1949 production reported to av 4.25% combined Pb and Zn One vein assayed 25% Pb, 68 oz Ag **Prod:** 1944-1952 (350,000 tons). 1953-1955 **Ref:** 30, p 111 46, pp. 80-81 97, 1950, p. 1613, 1951, p. 1616. 108, 3/54, pp 279-281 129, pp. 107-110 130, p. 91. 133, p. 34

### Deep Lake

(see Farmer)

### Deer Trail (121)

(see under silver)

### Defender (7)

**Loc:** N $\frac{1}{2}$  sec 25. (39-36E), on W. slope of Toulou Mtn., Orient dist. **Elev:** 1,900 to 2,400 ft **Access:** 1 $\frac{1}{2}$  mi SE. of Orient by road and trail **Prop:** 11 claims and a fraction, 2 patented **Owner:** Estate litigation (1941) Defender Mining Co. (1909-1914). **Ore:** Zinc, copper, gold, silver. **Ore min:** Sphalerite, pyrite, pyrrhotite, chalcopryite, galena, free gold. **Gangue:** Calcite, quartz, siderite. **Deposit:** 150-ft zone near a fault in monzonite and amphibolite contains many veins. One is 18 in. wide. **Dev:** Small open cuts and shallow shafts on each claim and a 106-ft inclined shaft on the Denver claim. **Assays:** A 60-ft intrusive dike said to assay \$3 to \$4 Au **Ref:** 7, pp 80-81 30, pp 119-120 46, pp. 103-104 114, no. 5, 1909, pp 61-62. 164, pp. 269-270.

### Dora

(see Acme under lead)

### Double Standard (14)

(see under copper)

### Eagle (108)

(see under silver)

### Easter Sunday (9)

(see under gold)

### Easy Money

(see Magma)

### Echo (80)

**Loc:** Sec 14, (37-39E), adjacent to the Big Chief mine, Northport dist. **Prop:** 7 claims **Owner:** Echo Mining Co. (1941). **Ore:** Zinc, lead, silver **Ore min:** Mixed sulfides. **Deposit:** Presumably similar to the Big Chief deposit. **Dev:** 2 adits reportedly total 850 ft of underground workings. **Ref:** 46, p. 51. 158.

### Eldorado

(see Magma)

### Electric Point (46)

(see under lead)

### Emerald

(see under lead)

### Empire (36)

**Loc:** Sec 24. (39-40E), 5 mi. from Northport. **Ore:** Zinc, lead. **Ref:** 158.

### Eureka (2)

(see under gold)

### Eureka (Uncle Sam)

(see Uncle Sam under lead)

### Eureka and Orient

(see Eureka under gold)

### Evergreen (69)

(see under lead)

### Farmer (Deep Lake) (42)

**Loc:** Sec 34, (39-41E), at S end of Deep Lk **Elev:** 2,050 to 2,425 ft **Access:** 12 mi by road to railroad at Northport. **Prop:** 2 claims King Tut No 1. King Tut No. 2. **Owner:** John and Tom Farmer, Spokane, Wash (1944—), leasing to C. W. and N. C. Hartbauer, Northport Wash. (1950-1952). **Ore:** Zinc, lead, silver **Ore min:** Sphalerite, galena, pyrrhotite, pyrite. **Gangue:** Dolomite, calcite. **Deposit:** Replaced and mineralized fracture zone in limestone is 2 to 20 ft. wide and has been traced for 600 ft on the surface near granite contact. **Dev:** 135-ft. adit, a smaller adit, 150 ft. of shaft work, an open pit, 2 diamond drill holes. **Assays:** One diamond drill hole showed a 20-ft. intersection av 5% Zn. General grade reported to be 2.5% Pb. Zn. Ore contains traces of gallium and germanium. **Prod:** Small amounts 1937, 1947-1951. **Ref:** 30, p. 102. 97, 1938, p. 460. 133, p 33. 136. 158.

### Flannigan

(see Iroquois)

### Flat Creek (11)

**Loc:** Sec. 4, (39-38E), on Flat Cr. **Elev:** 2,830 ft. **Access:** 19 mi. by road to railroad at Northport. **Prop:** 3 unpatented claims. **Owner:** Claude Sanders, Northport, Wash., leasing from Otto Ehrendreich, Northport, Wash. (1939-1950). **Ore:** Zinc, lead. **Ore min:** Sphalerite, galena **Deposit:** Narrow veins and related small replacement bodies in impure quartzite along fractures. Ore minerals are buncy and sparse as exposed in 1950. **Dev:** 8-ft. pit, several trenches. **Ref:** 157.

### Frisco Standard (67)

(see under silver)

### Galena Hill (6)

(see under lead)

### Gillete

(see Avondale-Dome under lead)

### Gladstone (47)

(see under lead)

### Globe (8)

(see under copper)

### Gold Bar (73)

(see under gold)

### Gorien Zinc

(see Black Rock, Deep Creek, New England)

**Note:** In 1919 John Gorien was Treasurer of the Northport Mining Co., and this company owned or controlled 280 acres of mineral land on both sides of Deep Cr. Valley, probably including all of the properties described separately in this report under the names of Deep Creek (Northport, Gorien), New England (Stone), Black Rock (Washington Black Rock, Gorien Zinc), and probably including others also.

### Great Republic (15)

(see under copper)

### Great Western (33)

(see under lead)

### Grubstake

(see under silver)

### H & B

(see Achan Bee under silver)

### Hartbauer (54)

(see under lead)

### Hartford

(see Krug under copper)